## IN THE CLAIMS:

Please amend claims 3, 22, 31 and 37 as follows:

## 1-2. (Cancelled)

- (Currently amended) A lid assembly for a semiconductor processing system, the lid assembly comprising:
  - a lid having first and second opposed surfaces;
- a plurality of controllable flow channels extending from the first and second opposed surfaces; and
- a gas control system disposed on the first surface and operably opening and closing the channels, wherein the gas control system comprises:
  - a gas manifold disposed on the lid;
- at least one valve coupled to the gas manifold adapted to control a flow through one of the flow channels; and
  - a reservoir positioned on the lid and fluidly connected to the gas manifold.
- (Previously Presented) The lid assembly of claim 3, wherein the gas manifold
  comprises:
  - an upper surface and a lower surface:
- a first channel, a second channel and a third channel each extending through the gas manifold and exiting the lower surface; and
- a fourth channel extending from the upper surface and coupling to the third channel
- (Original) The lid assembly of claim 4, wherein the gas control system further comprises:
  - a cleaning source fluidly coupled to the fourth channel.

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(Original) The lid assembly of claim 4, wherein the gas manifold further comprises;

a conduit disposed therein adapted to flow a heat transfer fluid therethrough.

## 7-19. (Cancelled)

- (Previously Presented) The lid assembly of claim 22, wherein the gas manifold further comprises a fourth channel coupled between the upper surface and the third channel.
- (Original) The lid assembly of claim 20 further comprising: a cleaning source fluidly coupled to the fourth channel.
- 22. (Currently amended) A lid assembly for a semiconductor processing system, the lid assembly comprising:
- a lid having first and second opposed surfaces, the first and second opposed surfaces having a first inlet channel, a second inlet channel and a third inlet channel disposed therethrough:
  - a gas manifold coupled to the first surface of the lid, the gas manifold comprising:

    a body having an upper surface and lower surface;
- a first channel, a second channel and a third channel each extending through the gas manifold to the lower surface;
  - a valve coupled to the gas manifold; and
  - a gas reservoir positioned on the lid and fluidly connected to the gas manifold.
- 23. (Original) The lid assembly of claim 22 further comprising:
- a thermal conditioning channel disposed in the gas manifold fluidly coupling the valve and the gas reservoir.

24-28. (Cancelled)

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- 29. (Previously Presented) The lid assembly of claim 31, wherein the gas manifold further comprises a cleaning agent supply channel coupled between the upper surface and one of the plurality of channels.
- (Original) The lid assembly of claim 29 further comprising:
   a cleaning source fluidly coupled to the cleaning agent supply channel.
- (Currently amended) A lid assembly for a semiconductor processing system, the lid assembly comorising:
- a lid having first and second opposed surfaces, the first and second opposed surfaces having a plurality of inlet channels disposed therethrough;
  - a valve:
    - a gas manifold coupled to the first surface of the lid, the gas manifold comprising: a body having an upper surface and lower surface;
  - a plurality of gas channels extending through the gas manifold to the lower surface; and
- a thermal conditioning channel disposed in the gas manifold fluidly coupled to at least one of the plurality of gas channels by the valve; and
- a gas reservoir fluidly <u>positioned on the lid</u>, connected to the gas manifold and fluidly coupled to the valve by the thermal conditioning channel.
- 32. (Previously Presented) The lid assembly of claim 31 further comprising:
- a baffle plate having a first side and a second side, the first side coupled to the second surface of the lid and having a recess formed therein, the recess defining a plenum with the second surface of the lid and fluidly communicating with the plurality of channels via the inlet channels disposed in the lid, the baffle plate having a conterpassage disposed therethrough providing a singular passageway between the plenum and the second side of the baffle plate.

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(Original) The lid assembly of claim 32, wherein the second surface of the lid further comprises a plurality of recesses formed therein that reduce the contact area with the first side of the baffle plate.

## 34-36. (Cancelled)

- (Currently amended) The lid assembly of claim 32, wherein the wherein the first side of the baffle plate further comprises a plurality of bosses that maintain the first side of the baffle plate in a spaced-apart relation with the second surface of the lid.
- (Original) The lid assembly of claim 37, wherein at least one of the bosses has a mounting hole disposed therethrough.
- (Original) The lid assembly of claim 32, wherein the first side of the baffle plate further comprises a ring circumscribing the recess that maintains the first side of the baffle plate in a spaced-apart relation with the second surface of the lid.
- (Original) The lid assembly of claim 32, wherein the first side of the baffle plate 40. further comprises a ring circumscribing the recess and a plurality of bosses disposed radially outward of the ring, the ring and bosses maintaining the first side of the baffle plate in a spaced-apart relation with the second surface of the lld.
- (Original) The lid assembly of claim 40, wherein the ring and bosses extend from the first side of the baffle plate to a common elevation.

42-51, (Cancelled)